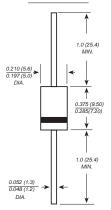


SB5100L

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 100 Volts Forward Current - 5.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

SYMBOLS **UNITS** SB5100L YXW Catalog Number Maximum repetitive peak reverse voltage 100 **VOLTS** V_{RRM} **VOLTS** Maximum RMS voltage VRMS 70 100 **VOLTS** Maximum DC blocking voltage VDC Maximum average forward rectified current 5.0 I(AV) Amps 0.375" (9.5mm) lead length(see fig.1) Peak forward surge current IFSM 150.0 8.3ms single half sine-wave superimposed on Amps rated load (JEDEC Method) Maximum instantaneous forward voltage at 5.0A VF 0.65 Volts Maximum DC reverse current Ta=25°C 0.5 mA lκ at rated DC blocking voltage Ta=100℃ 10.0 Typical junction capacitance (NOTE 1) СJ 400 рF Typical thermal resistance (NOTE 2) °C/W RθJA 25.0 Operating junction temperature range -50 to +150 °C TJ, Storage temperature range °C -50 to +150 Tstg

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

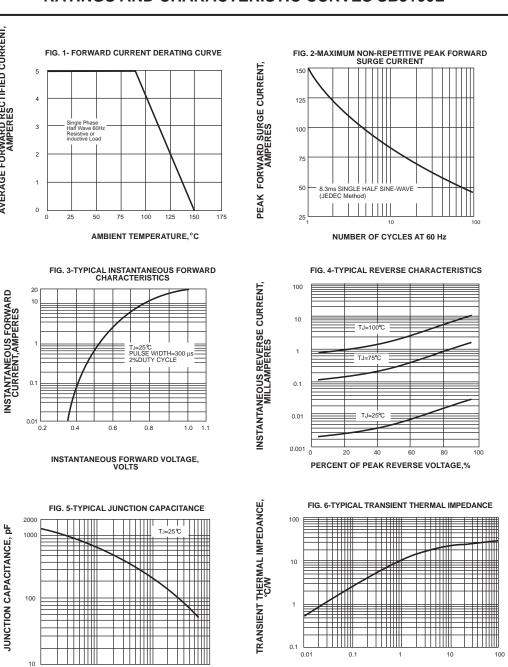
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES SB5100L

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

JUNCTION CAPACITANCE, pF

0.1



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

REVERSE VOLTAGE, VOLTS

t.PULSE DURATION.sec.